



# hf happenings 873

Volume 19, Issue 30, the week of 11 November 2019

HF Happenings from [www.sarl.org.za/hf\\_happenings.asp](http://www.sarl.org.za/hf_happenings.asp)

Southern African Fauna and Flora <https://zsfafunaandflora.wordpress.com/>

Zone 38 Award and others <https://zone38award.wordpress.com/>

Worldwide List of HF Beacons <https://iaruhfbeacons.wordpress.com/>

5 MHz (60 metre) allocations <http://www.sarl.org.za/public/contests/contestrules.asp>



## IARU Region 1 - December is YOTA Month

The SARL reports that December is YOTA Month, when several youngsters from Member Societies will become active on the air with YOTA as suffix in the call signs. From Sunday 1 December to Tuesday 31 December 2019, international YOTA stations, operated by young amateurs in their teens and early 20s, will attempt to make many contacts worldwide with each other. This event is aimed at our young generation and is an excellent opportunity for clubs to get youngsters on the air who are interested in or want to find out more about Amateur Radio.

It is not a formal contest, but a way to get our current young amateurs on the air contacting hundreds of other youngsters around the world.

The SARL has registered a special call sign ZS9YOTA on the IARU Region 1 website as an educational call sign for use by clubs and individuals during December. All radio amateurs are welcome to enjoy a QSO with the youngsters, be aware that some of them are new to the radio hobby, while others are more experienced.

## November

- 11 - Armistice Day; **Closing date for RaDAR logs**
- 14 - World Diabetes Day
- 16 - International Tolerance Day
- 18 - **Closing date for PEARS HF logs**
- 19 - Highway ARC Monthly Meeting
- 20 - SARL Wednesday 80 m Club Sprint
- 21 to 23 – Ficksburg Cherry Festival
- 22 - **Closing date for December Radio ZS**; Darling Scarecrow Festival (until 1 Dec)
- 23 - **SARL Newbie Sprint**
- 23 and 24 - **CQ WW DX CW contest**
- 30 - **West Rand Flea Market**

## December

- 1 - **Start of YOTA Month**; World Aids Day
- 2 - **Closing date for SARL VHF/UHF Analogue logs**
- 3 - International Day for People with Disabilities
- 4 - Schools close
- 7 - International Civil Aviation Day; Sneeuberg Crawl, Murraysberg
- 9 - **Closing date for Newbie Party logs**
- 10 - International Human Rights Day
- 10 to 21 - Ek lief Krismis Market, George
- 11 - International Mountain Day
- 12 to 30 - Durban Botanic Gardens Trail of Light
- 13 to 15 - Gabriëskloof Favorite Things Market, Bot River
- 13 to 16 - Eden Kite Festival. Garden Route
- 14 and 15 – **ARRL 10 m contest**
- 16 - Day of Reconciliation; Prince Alfred Hamlet Appelkoosfees
- 22 - Summer Solstice
- 23 to 30 - Hanukkah
- 25 – Christmas Day
- 26 – Family Day
- 31 - **End of the 2019 CQ DX Marathon and the YOTA month**

To reserve a slot to use the ZS9YOTA call sign on a daily basis or for more information please contact Noel, ZR6DX via e-mail at [zr6dx@iafrica.com](mailto:zr6dx@iafrica.com) or alternatively to Nico, ZS6QL at [zs6ql@mweb.co.za](mailto:zs6ql@mweb.co.za). The schedule and applicable rules will be available on the SARL website soon.

Looking forward to hearing our younger generation on the air during December!

### The Wednesday 80 m Club Sprint

The Wednesday 80 m Club Sprint will be on the air from 17:00 to 18:00 UTC on Wednesday 20 November with CW and phone activity on 3 510 to 3 570 kHz (CW) and 3 603 to 3 650 and 3 700 to 3 750 kHz (phone). Remember that the segment 3 651 to 3 699.99 is contest free! The exchange is a RS or RST report and your grid square (e.g. KG30).

You score 2 points for every QSO, with 5 points for the first QSO with each ZS call area (ZS1 to ZS8) and 5 points for the first QSO with each country outside South Africa. Log sheets in MS Excel format ONLY must be submitted by 27 November by e-mail to [zs4bfn@mweb.co.za](mailto:zs4bfn@mweb.co.za). The name of the operators Club must be shown on the log sheet.

### Mount Athos, SV2RSG/A

Bart Jahnke, W9JJ (ARRL Radiosport and Field Services Manager) announced on 7 November that "operations by SV2RSG/A (if stations from Mount Athos must identify '/A') are accepted by the ARRL DXCC. While SV2RSG/A is not yet in LoTW, we will be happy to help assist with setting that up if Monk Iakovos would like assistance (this assumes logging is or can be put into electronic Cabrillo or ADI formats)."

### Word to the wise

Nomophobia: The fear of being without, or not being able to use, your cellular phone.

### 2019 IARU HF World Championship contest results

The 2019 IARU HF World Championship contest results have just gone live the on contests.arrl.org landing page. This contest has competition not just between radio operators and their stations, but also between special IARU headquarters stations, and in some years has a symbiotic relationship with the WRTC competition. This year, over 4 000 logs were submitted, and some areas of the US were even favoured with transcontinental activity on 10 metres! <https://contests.arrl.org/ContestResults/2019/IARU-HF-2019-FinalFullResults.pdf>

### African DX

*Contacts with stations on the African continent count towards the SARL's All Africa Award ([www.sarl.org.za/public/awards/awards.asp](http://www.sarl.org.za/public/awards/awards.asp))*



Ghana, 9G. Watch out for Tine, S50A, Leo, S50R, Marko, S51DS, Tone, S51TC, Sergej, S51ZJ, Peter, S54W and Renato, S57UN of the Slovenia Contest Club operating with the call sign 9G5W from 16 to 27 November. They will be active on 160 - 10 m on CW, SSB, RTTY and digital modes and will participate in the CQ WW CW contest. QSL via ClubLog OQRS, S54W direct or via the bureau and LoTW. <https://ghana.si/>

### African Islands

IOTA Frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

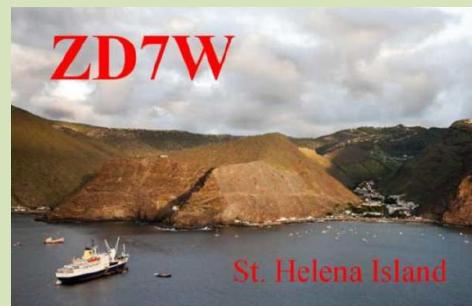
Zanzibar Island, 5H. Alex, K2BB, Serg, RT5D, Sasha, UT7UV, Oleg, US7UX, and Pavel, UU0JR will be active from Zanzibar Island (AF-032, WW Loc. KI93) between 16 and 30 November as 5H3UA and 5H3EME on HF and VHF on CW, SSB, digital modes and via EME. EME is planned for 6, 2 m and maybe also 70 cm. They will also participate in the CQ WW contest. QSL via K2BB direct or the bureau and LoTW. <http://5h3eme.com/>



Windward Islands, D4. Eric, OE4AAC will be signing D4CC from Sal Island (AF-086) between 17 and 30 November on 40 to 10 m (CW and some FT8) and during the CQ WW contest. QSL via OE4AAC direct or the bureau, LoTW, ClubLog OQRS.

Mauritius, 3B. Olof, G0CKV, Dave, K1ZZ, Denny, KX7M, Richard, N6AA, Martin, N6VI and Arthur, W6XD will be operating as 3B8M from Mauritius (AF-049) between 18 and 29 November with a focus on the low bands. They also plan to participate in the CQ WW DX CW Contest. QSL via MOOXO, LoTW.

St Helena, ZD7. Oliver/W6NV is currently staying on St Helena (AF-022) until 30 November. His main focus is to take part in the CQ WW contest as ZD7W. Before the contest weekend, he will be busy with setting up his station and visiting friends on the island, so on-air time will be limited and focused on the low bands (maybe also 60 m) on CW. QSL via LoTW and W6NV direct.



### Worldwide Radio Operator Foundation's Webinar

The World Wide Radio Operator Foundation's Webinar "CQ WW SSB and CW - Current News on Your Favourite Contests" is on YouTube [https://www.youtube.com/watch?v=P\\_880nAu7Q4](https://www.youtube.com/watch?v=P_880nAu7Q4). "CQ WW Director K1AR brings us up to date on the biggest annual global radio sport events on the calendar. Participant resources are examined along with log submittal, Log Check Reports, the Scores Database and awards. There are questions with answers at the end."

### Disconnecting antennas

Disconnecting antennas from equipment is just one of the steps you might want to take to prevent damage from nearby lightning strikes. Mike, VA3MW, posted a link to K4FWJ's video on how he mechanically disconnects his remote station's equipment without "being there." <https://community.flexradio.com/flexradio/topics/remote-antenna-disconnect-kwmif8rix145u>

### Operating Tip

Single Band Entry Subtlety. If you are entering a single band category (for example, in the ARRL International DX Contest), it is okay to also work stations on other bands. For example, if you are going to compete in the Single Op Single Band 40 metre category, it is okay to work stations on 20 meters. They would not count toward your 40 metre score since the contest sponsor will just ignore the 20 metre contacts during scoring. But ethically you cannot contact stations on 20 metres and ask them to move to 40 metres to give you a contact. This is something to keep in mind if you start as SOAB and then decide to change later.

### Predict Lightning Strikes

Mark, K6UFO, found an article on researchers using Machine Learning to predict where lightning will next strike. Once their model was trained, their window of detection is 10 to 30 minutes within a 30 kilometre radius, using only atmospheric pressure, air temperature, relative humidity, and wind speed from local weather stations.

<https://www.sciencedaily.com/releases/2019/11/191108074854.htm>

## Coil Inductance & Q Calculator

Brian, K6STI, has updated his Microsoft Windows program Coil Inductance & Q Calculator to include solenoids "made of solid or Litz Wire <http://ham-radio.com/k6sti/coil.zip>. The program includes an automatic optimizer that varies selected coil parameters to maximize Q while keeping inductance constant. I include accuracy data. The program is free.

## Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 11 to 18 November 2019

### 4 States QRP Group Second Sunday Sprint

01:00 - 03:00 UTC 11 November

Geographic Focus: North America

Participation: Worldwide

Mode: CW, SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op

Exchange: Member: RS(T), state, province or country and member no; Non-member: RS(T), state, province or country and power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 13 November 2019

E-mail logs to: (none)

Post log summary at:

<http://qrpcontest.com/4sqrp>

Mail logs to: (none)

Find rules at:

[www.4sqrp.com/SSS/sss\\_rules.pdf](http://www.4sqrp.com/SSS/sss_rules.pdf)

### RSGB 80 m Autumn Series, Data

20:00 - 21:30 UTC 11 November

Geographic Focus: United Kingdom

Participation: Worldwide

Mode: RTTY, PSK

Bands: 80 m Only

Classes: 100 W; 10 W

Exchange: RST and serial no

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 23:59 UTC 14 November 2019

Upload log at: [www.rsgbcc.org/cgi-bin/hfenter.pl](http://www.rsgbcc.org/cgi-bin/hfenter.pl)

Mail logs to: (none)

Find rules at:

[www.rsgbcc.org/hf/rules/2019/rautumn.shtml](http://www.rsgbcc.org/hf/rules/2019/rautumn.shtml)

### QRP Fox Hunt

02:00 - 03:30 UTC 13 November

Geographic Focus: United States

Participation: Worldwide

Mode: CW

Bands: 40 m Only

Classes: Single Op - fox or hound

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 03:30 UTC 14 November 2019

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at:

[www.qrpfoxyhunt.org/winter\\_rules.htm](http://www.qrpfoxyhunt.org/winter_rules.htm)

### Phone Fray

02:30 - 03:00 UTC 13 November

Geographic Focus: North America

Participation: Worldwide

Mode: SSB

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: NA: Name and state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 03:00 UTC 15 November 2019  
E-mail logs to: (none)  
Post log summary at: [www.3830scores.com](http://www.3830scores.com)  
Mail logs to: (none)  
Find rules at:  
[www.perluma.com/Phone\\_Fray\\_Contest\\_Rule\\_s.pdf](http://www.perluma.com/Phone_Fray_Contest_Rule_s.pdf)

CWops Mini-CWT Test  
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 13 November and 03:00 - 04:00 UTC 14 November  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op - QRP, low or high  
Max power: HP: >100 watts; LP: 100 watts;  
QRP: 5 watts  
Exchange: Member: Name and member no; non-Member: Name and state, province or country  
Work stations: Once per band  
QSO Points: 1 point per QSO  
Multipliers: Each call once  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 04:00 UTC 16 November 2019  
Post log summary at: [www.3830scores.com](http://www.3830scores.com)  
Mail logs to: (none)  
Find rules at: <https://cwops.org/cwops-tests/>

NCCC RTTY Sprint  
01:45 - 02:15 UTC 15 November  
Geographic Focus: North America  
Participation: Worldwide  
Mode: RTTY  
Bands: (see rules)  
Classes: (none)  
Exchange: Serial no, name and QTH  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 17 November 2019  
E-mail logs to: (none)  
Post log summary at: [www.3830scores.com/](http://www.3830scores.com/)  
Mail logs to: (none)  
Find rules at: [www.ncccsprint.com/rttyns.html](http://www.ncccsprint.com/rttyns.html)



QRP Fox Hunt  
02:00 - 03:30 UTC 15 November  
Geographic Focus: United States  
Participation: Worldwide  
Mode: CW  
Bands: 80 m Only  
Classes: Single Op - fox or hound  
Max power: 5 watts  
Exchange: RST, state, province or country, name and power output  
QSO Points: 1 point per QSO  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 03:30 UTC 16 November 2019  
E-mail logs to: (see rules)  
Mail logs to: (none)  
Find rules at:  
[www.qrpfoxyhunt.org/winter\\_rules.htm](http://www.qrpfoxyhunt.org/winter_rules.htm)

NCCC Sprint  
02:30 - 03:00 UTC 15 November  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW  
Bands: (see rules)  
Classes: (none)  
Exchange: Serial no, name and QTH  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 17 November 2019  
E-mail logs to: (none)  
Post log summary at: [www.3830scores.com/](http://www.3830scores.com/)  
Mail logs to: (none)  
Find rules at: [www.ncccsprint.com/rules.html](http://www.ncccsprint.com/rules.html)

YO International PSK31 Contest  
16:00 - 22:00 UTC 15 November  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: PSK31  
Bands: 80 m Only  
Classes: Single Op  
Max power: 50 watts  
Exchange: YO: RST, serial no and County; non-YO: RST, serial no and Country

QSO Points: 2 points per QSO with YO station; 1 point per QSO with non-YO station  
 Multipliers: Each YO county and each country  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 30 November 2019  
 E-mail logs to: [pskyo@yo5crq.ro](mailto:pskyo@yo5crq.ro)  
 Mail logs to: (none)  
 Find rules at: <http://www.yo5crq.ro/Rules.htm>

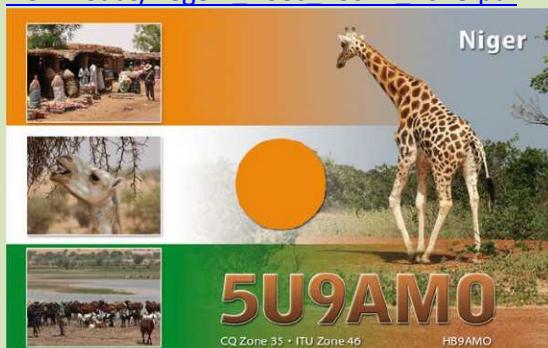
AWA Bruce Kelley 1929 QSO Party  
 23:00 UTC 16 November to 23:00 UTC 17 November  
 Geographic Focus: United States  
 Participation: Worldwide  
 Mode: CW  
 Bands: 160, 80, 40 m  
 Classes: (none)  
 Max power: 25 watts input  
 Exchange: RST, name, QTH, Eqpt Year and Transmitter Type (see rules for format) and input power (W)  
 QSO Points: 1 point per QSO  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 1 January 2020  
 E-mail logs to: [dgpark2@wisc.edu](mailto:dgpark2@wisc.edu)  
 Mail logs to: Dave Parker, PO Box 6, Prairie du Sac, WI 53578, USA  
 Find rules at: [www.antiquewireless.org/bruce-kelley-memorial-cw-qso-party.html](http://www.antiquewireless.org/bruce-kelley-memorial-cw-qso-party.html)

LZ DX Contest  
 12:00 UTC 16 November to 12:00 UTC 17 November  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW, SSB  
 Bands: 80, 40, 20, 15, 10 m  
 Classes: Single Op All Band - mixed, CW or SSB - low or high; Single Op All Band Mixed QRP; Single Op Single Band Mixed; Multi-Single Mixed; SWL  
 Max power: HP: >100 watts; LP: 100 watts; QRP: 10 watts  
 Exchange: LZ: RS(T) and 2-letter district; non-LZ: RS(T) and ITU Zone no  
 Work stations: Once per band per mode

QSO Points: 10 points per QSO with LZ station; 3 points per QSO with different continent; 1 point per QSO with same continent  
 Multipliers: LZ: Each ITU zone and each DXCC country once per band; non-LZ: Each ITU zone and each district once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 2 December 2019  
 E-mail logs to: [lxzdc@bfra.bg](mailto:lxzdc@bfra.bg)  
 Upload log at: <http://bfra.bg:8080/WebEditor/>  
 Mail logs to: BFRA, PO Box 830, 1000 Sofia, Bulgaria  
 Find rules at: <http://lxzdc.bfra.org/rulesen.html>

All Austrian 160-metre Contest  
 16:00 - 23:59 UTC 16 November  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW  
 Bands: 160 m Only  
 Classes: Single Op; Multi-Single; SWL  
 Exchange: OE: RST, serial no and District Code; non-OE: RST and serial no  
 QSO Points: 1 point per QSO  
 Multipliers: Each district code and each DXCC/WAE country  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 30 November 2019  
 E-mail logs to: [hf-contest@oevsv.at](mailto:hf-contest@oevsv.at)  
 Upload log at: <http://aoec-auswertung.oevsv.at/>

Mail logs to: OEVSV-HQ, HF-Contest Manager, Industriezentrum NO-Sud, Strasse 14, Objekt 31, 2351 Wr Neudorf, Austria  
 Find rules at: [www.oevsv.at/export/shared/.content/.galleries/Downloads\\_Referate/HF-Referat-Downloads/Regeln\\_Aoec\\_160\\_m\\_2018.pdf](http://www.oevsv.at/export/shared/.content/.galleries/Downloads_Referate/HF-Referat-Downloads/Regeln_Aoec_160_m_2018.pdf)



REF 160-metre Contest

17:00 UTC 16 November to 01:00 UTC 17 November  
Geographic Focus: France  
Participation: Worldwide  
Mode: CW  
Bands: 160 m Only  
Classes: Single Op; Multi-Op; SWL  
Exchange: RST, serial no and Department Code  
QSO Points: 3 points per QSO  
Multipliers: Each department code and each DXCC country  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 1 December 2019  
E-mail logs to: (none)  
Upload log at: <http://concours.r-e-f.org/contest/logs/upload-form>  
Mail logs to: (none)  
Find rules at: [http://concours.r-e-f.org/reglements/actuels/reg\\_ref160\\_en\\_2018\\_12.pdf](http://concours.r-e-f.org/reglements/actuels/reg_ref160_en_2018_12.pdf)

Feld Hell Sprint  
19:00 - 20:59 UTC 16 November  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: Feld Hell  
Bands: 160, 80, 40, 20, 15, 10, 6 m  
Classes: (none)  
Max power: Standard: 100 watts; QRP: 5 watts  
Exchange: (see rules)  
Work stations: Once per band  
QSO Points: (see rules)  
Bonus Points: (see rules)  
Multipliers: (see rules)  
Score Calculation: (see rules)  
Submit logs by: 20 November 2019  
Upload log at: <https://sites.google.com/site/feldhellclub/>  
Mail logs to: (none)  
Find rules at: <https://sites.google.com/site/feldhellclub/Home/contests/sprints/turkey-hunt-sprint>

RSGB 1,8 MHz Contest  
19:00 - 23:00 UTC 16 November  
Mode: CW  
Bands: 160 m Only  
Classes: Single Op – UK or overseas – assisted or unassisted  
Max power: 400 watts

Exchange: UK: RST, serial no and District Code; non-UK: RST and serial no  
QSO Points: 2 points per QSO; 5 additional points for first QSO with each UK district; UK stations: 5 additional points for first QSO with each country outside of UK  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 23:59 UTC 17 November 2019  
Upload log at: [www.rsgbcc.org/cgi-bin/hfenter.pl](http://www.rsgbcc.org/cgi-bin/hfenter.pl)  
Mail logs to: (none)  
Find rules at: [www.rsgbcc.org/hf/rules/2019/r160\\_m.shtml](http://www.rsgbcc.org/hf/rules/2019/r160_m.shtml)

ARRL SSB Sweepstakes Contest  
21:00 UTC 16 November to 03:00 UTC 18 November  
Geographic Focus: United States/Canada  
Participation: United States/Canada  
Mode: SSB  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op - QRP, low or high; Single Op Unlimited - low or high; Multi-Single - low or high; School Club – college, technical or secondary  
Max operating hours: 24 with at least 30 minutes off times  
Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts  
Exchange: Serial no, precedence (Q/A/B/U/M/S), your call sign, check and ARRL or RAC Section  
Work stations: Once only  
QSO Points: 2 points per QSO  
Multipliers: Each ARRL/RAC section and VE NT once  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 03:00 UTC 25 November 2019  
E-mail logs to: (none)  
Upload log at: <http://contest-log-submission.arrl.org>  
Mail logs to: November SS Phone, ARRL, 225 Main St., Newington, CT 06111, USA  
Find rules at: <http://www.arrl.org/sweepstakes>

Homebrew and Oldtime Equipment Party  
13:00 - 15:00 UTC (40 m) and 15:00 - 17:00 UTC 17 November (80 m)

Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW  
 Bands: 80, 40 m  
 Classes: A. Single Op LP, TX and RX: Homebrew or >30 years; B. Single Op LP, TX or RX: Homebrew or >30 years; C. Single Op QRP, Eqpt: Homebrew or >30 years; D. Single Op: Valved Eqpt Marketed before 1965 or Homebrew  
 Max power: LP: 100 W; QRP: 5 W  
 Exchange: RST, serial no, "/" and class  
 QSO Points: (see rules)  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 20 December 2019  
 E-mail logs to: [hot@qrpcc.de](mailto:hot@qrpcc.de)  
 Mail logs to: Lutz Gutheil, DL1RNN, Bergstr. 17, D-38446 Wolfsburg, Germany  
 Find rules at: [www.qrpcc.de/contestrules/hotr.html](http://www.qrpcc.de/contestrules/hotr.html)

Run for the Bacon QRP Contest  
 02:00 - 04:00 UTC 18 November  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW  
 Bands: 160, 80, 40, 20, 15, 10 m  
 Classes: Single Band; All Band

Max power: 5 watts



Exchange: RST, state, province or country and member no or power  
 Work stations: Once per band  
 QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent  
 Multipliers: Each state, province, or country once; Multiply mults by 2 if >50 members worked  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 24 November 2019  
 E-mail logs to: (none)  
 Upload log at: <http://qrpcontest.com/pigrun/autolog.php>  
 Mail logs to: (none)  
 Find rules at: <http://qrpcontest.com/pigrun/>

## Next Week's Contests

QRP Fox Hunt, 02:00 - 03:30 UTC 20 November  
 Phone Fray, 02:30 - 03:00 UTC 20 November  
 CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 20 November and 03:00 - 04:00 UTC 21 November  
 RSGB 80 m Autumn SSB Series, 20:00 - 21:30 UTC 20 November  
 NAQCC CW Sprint, 01:30 - 03:30 UTC 21 November  
 NCCC RTTY Sprint, 01:45 - 02:15 UTC 22 November  
 QRP Fox Hunt, 02:00 - 03:30 UTC 22 November  
 NCCC Sprint, 02:30 - 03:00 UTC 22 November  
 CQ Worldwide DX CW Contest, 00:00 UTC 23 November to 24:00 UTC 24 November  
 QCX Challenge, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 25 November and 03:00 - 04:00 UTC 26 November

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter